StorNext® Storage Manager Version 2.6

Syntax conventions:

- *italics* = replace with a variable
- [ ] = optional component

Policy Class Management

Command	Options	Description
fsaddclass		Creates and defines a new policy class.
	class	The policy class (maximum of 16 alphanumeric characters).
	[-s *softlimit*]	Warning limit for the number of media allocated in the policy class.
	[-h *hardlimit*]	Maximum number of media allowed in the policy class.
	[-n *notifyID*]	E-mail address of the user to notify when the policy class's *softlimit* and *hardlimit* are reached.
	[-t *mediatype*]	Defines the media type to use for the policy class.
	[-l *securitycode*]	Security code for the policy class (up to 4 characters in length).
	[-o *acctnum*]	Account number for the policy class (up to 5 characters in length).
	[-x *maxcopies*]	Maximum number of copies (including the primary) allowed for each file in the policy class.
	[-d *defaultcopies*]	Total number of stored copies (including the primary) for each file in the policy class. This value cannot exceed the *maxcopies* setting.
	[-m *minstoretime*]	Minimum time (in minutes) that a file must reside unmodified on disk before being considered a candidate for storage on media.

Command	Options	Description
	[-c *mintrunctime*]	Minimum time (in days) that a file must reside unaccessed on disk before being considered a candidate for truncation.
	[-a *affinity*]	Lists disk affinities that the files in the policy class will traverse in their lifecycle.
	[-i *minreloctime*]	Minimum time (in days) that a file must reside unaccessed on disk before being considered a candidate for relocation.
	[-v *drivepool*]	Media Manager drive pool used to store or retrieve data for the policy class.
	[-f i | p]	File retention policy (-f) for the policy class. Files can be: • i - Truncated immediately • p - Truncated at policy application time
	[-r c | s]	Media classification cleanup action. When all files are deleted from a medium, the medium can revert (-r) back to: • c - Policy class blank pool • s - System blank pool
fsaddrelation		Adds a directory-to-policy class association.
	directory	Path name of the directory to associate with the policy class.
	-c *class*	Policy class to associate with the directory.
fsclassinfo		Reports policy class processing parameters, directory paths, and affinity lists.
	[*class*]	One or more policy classes to be listed.
	[-l]	Long report - processing parameters, directory paths, and the disk affinity list for the policy class.
fsmodclass		Modifies the parameters of the policy class.
	class	The policy class.
	[-d *defaultcopies*]	Total number of copies to store (including the primary) for each file in the policy class.

Command	Options	Description
	[-f i | p]	File retention policy (-f) for the policy class. Files can be: • i - Truncated immediately • p - Truncated at policy application time
	[-h *hardlimit*]	Maximum number of media allowed in the policy class.
	[-l *securitycode*]	Security code for the policy class (up to 4 characters in length).
	[-m *minstoretime*]	Minimum time (in minutes) that a file must reside unmodified on disk before being considered a candidate for storage on media.
	[-c *mintrunctime*]	Minimum time (in days) that a file must reside unaccessed on disk before being considered a candidate for truncation.
	[-i *minreloctime*]	Minimum time (in days) that a file must reside unaccessed on disk before being considered a candidate for relocation.
	[-n *notifyID*]	E-mail address of the user to notify when the policy class's *softlimit* and *hardlimit* are reached.
	[-o *acctnum*]	Account number for the policy class (up to 5 characters in length).
	[-r c | s]	Media classification cleanup action. When all files are deleted from a medium, the medium can revert (-r) back to: • c - Policy class blank pool • s - System blank pool
	[-s *softlimit*]	Warning limit for the number of media allocated in the policy class.
	[-t *mediatype*]	Defines the media type to use.
	[-a *affinity*]	Lists disk affinities that the files in the policy class will traverse in their lifecycle.
	[-v *drivepool*]	Media Manager drive pool used to store / retrieve data.
	[-x *maxcopies*]	Maximum number of copies (including the primary) allowed for each file in the policy class.

Device Management

Command	Options	Description
fschstate		Modifies the state of storage subsystems and drive components.
	[*componentalias*]	Alias used for storage subsystems and drive components.
	[-s *state*]	Desired state of drive components or subsystems. Valid values: • MAINT • ON • OFF Drive status. Valid values: • FREE • IN USE • FAILED • DELAYED • CLEANING

File Management

Command	Options	Description
fschfiat		Modifies the class attributes of the file.
	filename	File having changed attributes.
	[-c *copies*]	Number of file copies to store, including the primary. This value cannot exceed the *maxcopies* setting.
	[-t e | p | i]	Indicates how truncation policies (-t) operate on the file: • e - Excludes the file from truncation when a store or cleanup policy application occurs. • p - Truncates the file by cleanup policy. • i - Truncates the file immediately.
	[-s e | p]	Indicates how storage policies (-s) operate on the file: • e - Excludes the file from storage when a store policy occurs. • p - Stores the file by storage policy.

Command	Options	Description
	[-r e | p]	Indicates how relocation policies (-r) operate on the file. • e - Excludes the file from relocation when a relocation policy occurs. • p - Relocates the file by relocation policy.
	[-a *class*]	Specifies an alternate policy class that can be associated with the file.
fspolicy		Manages disk data / space via file system or class.
	[-c *class*]	Policy class associated with data to be stored or truncated.
	[-e]	Invokes a high priority for immediate action on file storage in a file system.
	[-s]	Invokes the storage policy.
	[-m *minreloctime*] [-m *minstoretime*]	Minimum time (in minutes) a file must reside unaccessed on disk before being considered a candidate for relocation.
	[-m *mintrunctime*]	Minimum time (in minutes) a file must reside on disk before being considered a candidate for storage. Minimum time (in days) that a file must reside unaccessed on disk before being considered a candidate for truncation.
	[-o *goal*]	Percentage of used disk space at which a truncation policy ceases to be applied.
	[-t]	Invokes the cleanup (truncation) policy.
	[-v *drivepool*]	Specifies the drivepool from which to allocate drives when storing files.
	[-b]	Scans file system for candidate files to store, relocate or truncate and rebuilds the candidate lists.
	[-y *filesystem*]	File system to which the policy will be applied.
	[-r]	Invokes the relocation policy.

Command	Options	Description
	[-z *minsize*]	Minimum file size (in bytes) to relocate or truncate.
fsretrieve		Retrieves or recovers files from media and places the files on disk.
	filename	Full path and name of the file to retrieve.
	[-c]	Retrieves a secondary copy of the file (if a second copy exists).
	[-n *newfilename*]	New path and name into which to retrieve the file.
	-R *directory*	Directory from which to start recursive retrieval.
	[-b *startbyte endbyte*]	Specifies a byte range to retrieve. The value of *startbyte* must be less than the *endbyte* value. Both values must be within the file's byte range.
	[-a]	Updates the access time of the requested files.
fsrmcopy		Removes a copy/copies of a file from disk or media.
	filename	File or files to remove from disk or media.
	[-c *copynum* | a]	Deletes either a specific number (*copynum*) of file copies or all file copies (a) from the media.
	[-m *mediaID*]	Deletes all files on media which reside on disk.
fsrmdiskcopy		Removes a file copy from disk after the file is stored to media.
	filename	Full path and name of the file copy to remove from disk.
fsstore		Expedites storage of data to media, instead of allowing data migration by SNMS software.
	filename	Name of file on disk to store to media.
	[-c *copies*]	Number of file copies to store, including the primary.

Command	Options	Description
	[-f i | p]	File retention policy (-f) for the file. Files can be: • i - Truncated immediately • p - Truncated at policy application time
	[-t *mediatype*]	Defines the media type to use for storage.
	[-v *drivepool*]	Specifies the Media Manager drive pool group used to store the file.
	[-z *minsize*]	Specifies the minimum file size (in bytes) to store.
fsversion		Specifies the file's current version(s).
	name	File for which the version number will be checked.
	[-h]	Displays usage.
	[-a]	Lists all available versions of the file (current and inactive).
	[-v]	Verbose listing of the file's current version (version number and modification time).
	[-c ver]	Modifies the file's current version to the specified inactive version.
	[-f]	Forces the version change.

File System Recovery

Command	Options	Description
fsaudit		Performs a file system audit or recovery.
	filesystem	Mount point for the file system to be audited or recovered.
	[-r]	Runs the fsaudit command in recovery mode.
	[-f | -i]	For file system disaster recovery, corrects file system discrepancies in non-interactive mode (-f) or interactive mode (-i). In interactive mode, the user is prompted for permission to correct each file system discrepancy encountered during the audit.

Command	Options	Description
fsrecover		Reports or recovers files that were modified or removed from disk.
	filename	File to look for in the Trashcan.
	dirname	Directory containing file to restore.
	filepathname	Full path of the file to restore.
	dirpathname	Full path of the directory containing file to restore.
	-u	Indicates that restore processing is requested.
	-d	Indicates that directory processing is requested.
	[-p]	Specifies that the user report display entries owned by the user, file entries to which the user has read access, and directory entries to which the user has write access.
	[-r]	Indicates recursive processing is requested.
	[-t *starttime* [*endtime*]]	Indicates a time range to restrict the length of the user report. The format of the *starttime* and *endtime* parameters is: YY:MM:DD:hh:mm:ss
	[-v]	Number corresponding to the order in which the file became invalid. The most recent file version is 1.

Media Management

Command	Options	Description
fschmedstate		Modifies the state of media or a policy class to which the media belongs.
	mediaID	The media identifier.

Command	Options	Description
	[-c *class* | -b]	For blank media: • Changes the name of the associated policy class (-c *class*) - or - • Changes the policy class to system blank pool (-b).
	[-s *state*]	The media state. Valid values are: • unsusp • protect • unprotect • avail • unavail • unmark
fsclean		Removes inactive file version information.
	-m *mediaID*	The media identifier.
	-s *filesystem*	The file system to clean.
	-c *class*	Policy class associated with data to clean.
	-t [*endtime*]	Endtime option. This parameter should be less than or equal to the current time. The format of the *endtime* parameter is: YY:MM:DD:hh:mm:ss Default: current time
fsdrvclean		Cleans the specified drive.
	drivealias	The drive alias. Valid values: 1 to 255 characters
fsmedcopy		Copies, reports or defragments media.
	mediaID	The media identifier.
	[-r]	Initiates copy-replace for a medium.
	[-d *destinationmediaID*]	Copies a data file to the destination media identifier.
	[-b]	Specifies blank media for media destination.

Command	Options	Description
	[-f *fill*]	Specifies the fill level threshold (between 0 and 100%).
	[-t *mediatype*]	Defines media type to use.
	[-u *runtime*]	Maximum allowable time (in hours) for the fsmedcopy command to finish.
	[-w *fragmentation*]	Percentage (0 to 100%) of wasted space out of filled space on media.
fsmedinfo		Generates a report on the specified media.
	mediaID	The media identifier.
	[-l]	Generates the long-form report which includes a list of files on the media.
fsrminfo		Removes file information from the SNMS database.
	mediaID	The media identifier.
	[-f]	Forces the removal of database information.
vsarchiveqry		Queries for information about an archive.
	archivename | -a	Specifies the archive (*archivename*) or all archives (-a) to be queried.
	[-c]	Indicates that detailed information on all media classes associated with the specified archive will be reported.
	[-d]	Indicates that all drives associated with the specified archive will be reported.
	[-m]	Indicates that all media associated with the specified archive will be reported.
	[-t]	Indicates that detailed information on all media types associated with the specified archive will be reported.

Command	Options	Description
	[-v]	Indicates that all drives, media classes, media, and media types associated with the specified archive will be reported.
	[-l]	Indicates that command line options are read from stdin.
	[-h]	Requests help for the entered command.
	[-H *hostname*]	Hostname of the Media Manager server.
	[-P *priority*]	Execution priority of the entered command. Default value: 15 Valid values: 1 to 32
	[-R *retries*]	Number of retries the CLI software attempts if a timeout is received. Default: 3
	[-T *timeout*]	Time interval (in seconds) that the software waits for status before returning a timeout. Default: 120
	[-V *number*]	RPC program number for the software. Default: 300016
vsdriveqry		Queries for information on the specified drive.
	driveID | -a	Indicates a specific drive (*driveID*) or all drives (-a) will be queried.
	[-l]	Indicates that command line options are to be read from stdin.
	[-h]	Requests help for the entered command.
	[-H *hostname*]	Hostname of the Media Manager server.
	[-P *priority*]	Execution priority of the entered command. Default value: 15 Valid values: 1 to 32

Command	Options	Description
	[-R *retries*]	Number of retries the CLI software attempts if a timeout is received. Default: 3
	[-T *timeout*]	Time interval (in seconds) that the software waits for status before returning a timeout. Default: 120
	[-V *number*]	RPC program number for the software. Default: 300016
vsdrivevary		Changes a drive state.
	driveID	Specifies the drive(s) which state is to be changed.
	-p *drivepool*	Specifies the drive pool for which associated drives' states will be changed.
	-s *state*	Specifies the target state of the specified drive.
	[-v]	Verbose listing (status information) of changed drives.
	[-l]	Indicates that command line options are read from stdin.
	[-h]	Requests help for the entered command.
	[-H *hostname*]	Hostname of the Media Manager server.
	[-P *priority*]	Execution priority of the entered command. Default: 15 Valid values: 1 to 32
	[-R *retries*]	Number of retries the CLI software attempts if a timeout is received. Default: 3
	[-T *timeout*]	Time interval (in seconds) that the software waits for status before returning a timeout. Default: 120

Command	Options	Description
	[-V *number*]	RPC program number for the software. Default: 300016
vsmedclassqry		Queries for the attributes of a media class.
	mediaclass	Specifies a media class (*mediaclass*) or all media classes (-a) on which to request information.
	[-m]	Requests a list of media identifiers for all media associated with each reported media class.
	[-v]	Requests detailed information for all media associated with each reported media class.
	[-l]	Indicates that command line options are to be read from stdin.
	[-H *hostname*]	Hostname of the Media Manager server.
	[-P *priority*]	Execution priority of the entered command. Default: 15 Valid values: 1 to 32
	[-R *retries*]	Number of retries the CLI software attempts if a timeout is received. Default: 3
	[-T *timeout*]	Time interval (in seconds) that the software waits for status before returning a timeout. Default: 120
	[-V *number*]	RPC program number for the software. Default: 300016
vsmedqry		Queries for the attributes of one or more specified media.
	mediaID	Specifies a media type (*mediaID*) or all media (-a) to be queried.
	[-l]	Indicates that command line options are to be read from stdin.

Command	Options	Description
	[-h]	Requests help for the entered command.
	[-H *hostname*]	Hostname of the Media Manager server.
	[-P *priority*]	Execution priority of the entered command. Default: 15
	[-R *retries*]	Number of retries the CLI software attempts if a timeout is received. Default: 3
	[-T *timeout*]	Time interval (in seconds) that the software waits for status before returning a timeout. Default: 120
	[-V *number*]	RPC program number for the software. Default: 300016
vspoolcfg	-p *drivepool*	Configures the specified drive pool.
	-c *driveID*	Creates a drive pool with a list of drive identifiers.
	-d	Deletes the drive pool.
	-i *driveID*	Inserts drives into an existing drive pool.
	-r *driveID*	Removes drives from an existing drive pool.
	[-l]	Indicates that command line options are to be read from stdln.
	[-h]	Requests help for the entered command.
	[-H *hostname*]	Hostname of the Media Manager server.
	[-P *priority*]	Execution priority of the entered command.
	[-R *retries*]	Number of retries attempted if the software receives a timeout.
	[-T *timeout*]	Time interval (in seconds) that the software waits for status before returning a timeout.

Command	Options	Description
	[-V *number*]	RPC program number for the software.
vsreclassify		Changes the media class associated with the specified media.
	mediaID	Specifies one or more media to reclassify.
	-c *currentmediaclass*	Specifies the media class with which specified media are to be associated.
	-n *newmediaclass*	Specifies the new media class with which the specified media are to be associated.
	[-v]	Specifies verbose output.
	[-l]	Indicates that CLI options are to be read from stdin.
	[-h]	Requests help for the entered command.
	[-H *hostname*]	Hostname of the Media Manager server.
	[-P *priority*]	Execution priority of the entered command. Default: 15
	[-R *retries*]	Number of retries that the software attempts if a timeout is received. Default: 3
	[-T *timeout*]	Time interval (in seconds) that the software waits for status before returning a timeout. Default: 120
	[-V *number*]	RPC program number for the software. Default: 300016

Reports and Queries

Command	Options	Description
fsfileinfo		Reports the current location of files, whether of disk, media or not in the system.
	filename	Full path and filename of the file.
fsqueue		View subsystem resource requests.
	[-f]	Reports all files in the queue or specific files if request identifiers or filenames are specified.
	[-m]	Reports media movement for a request identifier or all media in the queue.
	filename	Path and filename of the file.
	[-r *requestID*]	Identifier of the request to be reported.
fsmedlist		Lists media in a data or storage area.
	[-c *class*]	Policy class for which the report is to be generated.
	[-g]	Reports on blank media in the general scratch pool.
	[-l]	Lists media in the long report format.
	[-k]	Lists all media marked for check out.
	[-m]	Lists all media marked for removal.
	[-b]	Lists unformatted blank media.
	[-f]	Lists formatted blank media.
	[-j]	Lists all media marked to contain duplicate files.
	[-p]	Lists all write-protected media.
	[-q]	Lists media with mark error.
	[-a]	Lists all available media.
	[-n]	Lists all media unavailable to SNMS software.
	[-u]	Lists all media marked as unavailable but still located in SNMS system.

Command	Options	Description
	[-s]	Lists all suspect media.
	[-d]	Lists all media located in a drive.
	[-h]	Lists all media located in its home slot/bin.
	[-t]	Lists all media transitioning between locations.
	[-z]	Lists all media exiting a storage area.
	[-o]	Lists all media checked out of storage areas.
fsstate		Reports the state of drive components, storage subsystem, and SNMS software.
	[*componentalias*]	Alias for drives and storage subsystems.
	[-f]	Generates a report showing the status of SNMS software. Valid states are: • Active • Not Active • Not Available
fsusedspace		Reports the total amount of stored, primary copy data in the SNMS system (in GB).

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